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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/816,256

04/01/2004

Ju-Liang He

20984-0011

9878

26587

7590

04/19/2005

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EXAMINER

LAM, CATHY FONG FONG

ART UNIT

PAPER NUMBER

1775

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/816,256

Applicant(s)

HE, JU-LIANG

Examiner

Cathy Lam

Art Unit

1775

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Saitoh et al (US 6369332).

Saitoh teaches a circuit substrate comprised of a metal plate (1), an insulating adhesive layer (2&8) and a circuit conductor layer (5A&5B).

The metal plate (1) which can be aluminum, is deposited with an insulating adhesive layer (2&8) thereon (col 4 L 61). The insulating adhesive layer (2&8) are metal oxide and/or metal nitride. The metal oxide such as aluminum oxide is preferred (col 3 L 66-col 4 L 9).

The circuit conductor layers (5A&5B) are deposited over the insulating adhesive layers (2&8) (or metal oxide layers); the material for the circuit conductor layers can be copper (col 6 L 14-16).

Electronic devices (4, 7, 9) are mounted onto the circuit conductor layer (5A,5B& 6).

3. Claims 1 and 5-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Anderson et al (US 6194246).

Anderson teaches an electronic device comprised of a metal base plate (10), a dielectric layer (12,14) and a conductive layer (18); all in the named order (Figs. 2&3).

The dielectric layer is a metal oxide such as aluminum oxide is coated onto the metal base plate (10) for bonding the conductive layer to the base plate (10) (col 3 L 8-10 & 13).

A copper conductive layer (18) is blanket coated over the metal base plate (10) with (patterned) metal oxide thereon. The copper conductive layer (18) is then etched to form a pattern corresponding to the metal oxide (12,14). Electronic component (24) is bonded to the contacts (20,22) formed from the patterned copper conductive layer.

4. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Blazej (US 4733328).

Blazej teaches a laminated capacitive element comprised of a conductive substrate layer (12), a non-conductive layer (16) and a conductive layer (18); all the named order.

The conductive substrate layer (12) can be an aluminum layer (col 4 L 29-31). The non-conductive layer (16) is a metal and non-metal oxide such as titanium oxide, aluminum oxide and zirconium oxide, etc. (col 4 L 67-col 5 L 1). The conductive layer (18) can be copper or silver, etc. metal (col 5 L 34-36).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (571) 272-1538. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 1775

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Cathy Lam  
Primary Examiner  
Art Unit 1775

cfl  
April 13, 2005